

REMARKS

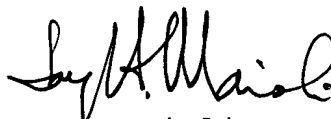
Claims 1-46, 48-52 and 54-56 remain in the application and have been amended hereby.

As will be noted from the Declaration, Applicants are citizens and residents of Japan and this application originated there.

Accordingly, the amendments to the specification are made to place the application in idiomatic English, and the claims are amended to place them in better condition for examination.

An early and favorable examination on the merits is earnestly solicited.

Respectfully submitted,  
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VERSION WITH MARKINGS TO SHOW CHANGES MADEIN THE ABSTRACT OF THE DISCLOSURE

The Abstract of the Disclosure has been amended as follows:

--A reproducing method for a record medium[, the reproducing method comprising] includes the steps of performing a demodulating process for data that [has] have been read from a record medium on which content data [of a content has] have been recorded, [at least] management information and additional information being embedded [to] in the content data [of the content], the management information being with respect to a copy management, the additional information containing [at least] one of error detection code and error correction code added to the management information, detecting the additional information from [an] a demodulated output signal [of which the demodulation process has been performed], performing an error detecting process corresponding to one of the error detection code and the error correction code [of the detected additional information], and controlling an output operation for [an] the demodulated output signal [of which the demodulating process has been performed] for the content data [of the content that has been] read from the record medium corresponding to the management information when no error [takes place] is found in the error

detecting process.--

IN THE CLAIMS

Claims 1-46, 48-52 and 54-56 have been amended as follows:

--1. (Amended) A reproducing apparatus for a record medium, the reproducing apparatus comprising:

a head portion for scanning a record medium on which content data [of a content has been] are recorded, [at least] wherein management information and additional information [being] are embedded [to] in the content data [of the content,]; the management information [being with respect] correspond to [a] copy management[,]; and the additional information [containing at least] contains one of error detection code and error correction code added to the management information;

a demodulation processing portion for performing a demodulating [portion for] process on data [that that has been] read from the record medium by [said header] the head portion;

a detecting circuit portion for detecting the additional information from an output signal of [said] the demodulation processing portion; and

a determining circuit portion for performing an error detecting process [for] on a detected result [supplied] from

[said] the detecting circuit portion corresponding to the error detection code contained in the additional information detected by [said] the detecting circuit portion and controlling an output operation for [an] the output signal of [said] the demodulation processing portion for the content data [of the content that has been] read from the record medium corresponding to the management information when no error [takes place] occurs in the error detecting process.

--2. (Amended) The reproducing apparatus for the record medium as set forth in claim 1,

wherein [said] the determining circuit portion rewrites the management information and [adding] adds one of the error detection code and the error correction code to the rewritten management information [as it is] without modification when [said] the determining circuit portion outputs [an] the output signal of [said] the demodulation processing portion.

--3. (Amended) The reproducing apparatus for the record medium as set forth in claim 2, further comprising:

a rewriting portion[, ] controlled by [said] the determining circuit portion[, ] for rewriting the management information contained in the output signal of [said] the demodulation processing portion.

--4. (Amended) The reproducing apparatus for the record medium as set forth in claim 3,

[wherein said] the rewriting portion [comprises]  
comprising:

a generating portion for generating new management information corresponding to a control signal supplied from [said] the determining circuit portion; and

an adding circuit portion for adding the new management information [newly] generated by [said] the generating portion to [an] the output signal of [said] the demodulation processing portion.

--5. (Amended) The reproducing apparatus for the record medium as set forth in claim 3,

wherein [said] the determining circuit portion permits the output signal of [said] the demodulation processing portion to be output and causes [said] the rewriting portion to rewrite the management information when the management information permits the content data [of the content that has been] read from the record medium to be copied.

--6. (Amended) The reproducing apparatus for the record medium as set forth in claim 5,

wherein [said] the determining circuit portion causes [said] the rewriting portion to rewrite the management

information so that the management information prohibits the content data [of the content that has been] read from the record medium from being copied.

--7. (Amended) The reproducing apparatus for the record medium as set forth in claim 3,

wherein [said] the determining circuit portion prohibits the output signal of [said] the demodulation processing portion from being output when the management information prohibits the content data [of the content that has been] read from the record medium from being copied.

--8. (Amended) The reproducing apparatus for the record medium as set forth in claim 1,

wherein when [said] the determining circuit portion detects that an error [takes place] occurs corresponding to one of the error detection code and the error correction code[, said] the determining circuit portion stops the operation.

--9. (Amended) The reproducing apparatus for the record medium as set forth in claim 1,

wherein [said] the determining circuit portion calculates a syndrome corresponding to the error detection code and determines whether [or not] an error [takes place]

occurs depending on whether the calculated syndrome is a predetermined value.

--10. (Amended) The reproducing apparatus for the record medium as set forth in claim 1,

wherein [said] the determining circuit portion calculates a syndrome corresponding to one of the error detection code and the error correction code and determines whether an error [takes place] occurs depending on whether [or not] the calculated syndrome is a predetermined value and [corresponding] corresponds to the management information.

--11. (Amended) The reproducing apparatus for the record medium as set forth in claim 10,

wherein [said] the determining circuit portion determines that no error [takes place] occurs when the calculated syndrome is zero and the management information permits the content data [of the content] to be copied.

--12. (Amended) The reproducing apparatus for the record medium as set forth in claim 10,

wherein [said] the determining circuit portion determines that no error [takes place] occurs when the calculated syndrome is a predetermined value and the management information prohibits the content data [of the

content] from being copied.

--13. (Amended) The reproducing apparatus for the record medium as set forth in claim 10,

wherein [said] the determining circuit portion determines that an error [takes place] occurs when the calculated syndrome is a predetermined value and the management information permits the content data [of the content] to be copied.

--14. (Amended) The reproducing apparatus for the record medium as set forth in claim 10,

wherein [said] the determining circuit portion determines that no error [takes place] occurs when the calculated syndrome is zero and the management information represents that the record medium is an original record medium.

--15. (Amended) The reproducing apparatus for the record medium as set forth in claim 10,

wherein [said] the determining circuit portion determines that no error [takes place] occurs when the calculated syndrome is a predetermined value and the management information represents that the record medium is a non-original record medium.



--16. (Amended) The reproducing apparatus for the record medium as set forth in claim 10,

wherein [said] the determining circuit portion determines that an error [takes place] occurs when the calculated syndrome is a predetermined value and the management information represents that the record medium is an original record medium.

--17. (Amended) A reproducing method for a record medium, the reproducing method comprising the steps of:

performing a demodulating process for data [that has been] read from a record medium on which content data [of a content has been] are recorded, [at least] wherein management information and additional information [being] are embedded [to] in the content data [of the content,]; the management information [being with respect] correspond to [a] copy management[,]; and the additional information [containing at least] contains one of an error detection code and an error correction code added to the management information;

detecting the additional information from an output signal of [which] the demodulation process [has been performed];

performing an error detecting process corresponding to one of the error detection code and the error correction code of the detected additional information; and

controlling an output operation for an output signal [of] on which the demodulating process has been performed for the content data [of the content that has been] read from the record medium corresponding to the management information when no error [takes place] occurs in the error detecting process.

--18. (Amended) The reproducing method for the record medium as set forth in claim 17,

wherein the controlling step is performed by rewriting the management information and adding one of the error detection code and the error correction code to the rewritten management information [as it is] without modification when [an] the output signal [of which the demodulating process has been performed].

--19. (Amended) The reproducing method for the record medium as set forth in claim 18, further comprising the step of:

permitting the output signal [of which the demodulating process has been performed] to be output and rewriting the management information when the management information permits the content data [of the content that has been] read from the record medium to be copied.

--20. (Amended) The reproducing method for the record

medium as set forth in claim 18,

wherein the rewriting step is performed so that the management information prohibits the content data [of the content that has been] read from the record medium from being copied.

--21. (Amended) The reproducing method for the record medium as set forth in claim 19, further comprising the step of:

prohibiting the output signal [of which the demodulating process has been performed] from being output when the management information prohibits the content data [of the content that has been] read from the record medium from being copied.

--22. (Amended) The reproducing method for the record medium as set forth in claim 17, further comprising the step of:

stopping the operation when it is detected that an error [takes place] occurs corresponding to one of the error detection code and the error correction code[, stopping the operation].

--23. (Amended) The reproducing method for the record medium as set forth in claim 17, further comprising the step

of:

calculating a syndrome corresponding to one of the error detection code and the error correction code and determining whether [or not] an error [takes place] occurs depending on whether [or not] the calculated syndrome is a predetermined value.

--24. (Amended) The reproducing method for the record medium as set forth in claim 17, further comprising the step of:

calculating a syndrome corresponding to one of the error detection code and the error correction code and determining whether [or not] an error [takes place] occurs depending on whether [or not] the calculated syndrome is a predetermined value and [corresponding] corresponds to the management information.

--25. (Amended) The reproducing method for the record medium as set forth in claim 24,

wherein when the calculated syndrome is zero and [when] the management information permits the content data [of the content] to be copied[, ] the result of the determining step represents that no error [takes place] occurs.

--26. (Amended) The reproducing method for the record

medium as set forth in claim 24,

wherein when the calculated syndrome is a predetermined value and the management information prohibits the content data [of the content] from being copied[,], the result of the determining step represents that no error [takes place] occurs.

--27. (Amended) The reproducing method for the record medium as set forth in claim 24,

wherein when the calculated syndrome is a predetermined value and [when] the management information permits the content data [of the content] to be copied[,], the result of the determining step represents that [an] the error [takes place] occurs.

--28. (Amended) The reproducing method for the record medium as set forth in claim 24,

wherein when the calculated syndrome is zero and [when] the management information represents that the record medium is an original record medium[,], the result of the determining step represents that no error [takes place] occurs.

--29. (Amended) The reproducing method for the record medium as set forth in claim 24,

wherein when the calculated syndrome is a predetermined

value and [when] the management information represents that the record medium is a non-original record medium[, ] the result of the determining step represents that no error [takes place] occurs.

--30. (Amended) The reproducing method for the record medium as set forth in claim 16,

wherein when the calculated syndrome is a predetermined value and [when] the management information represents that the record medium is an original record medium[, ] the result of the determining step represents that [an] the error takes place.

--31. (Amended) A data output controlling method, comprising the steps of:

detecting additional information from content data [of a content], [at least] wherein management information and additional information [being] are embedded [to] in the content data [of the content,]; the management information [being with respect] corresponds to [a] copy management[,]; and the additional information [containing at least] contains one of error detection code and error correction code added to the management information;

performing an error detecting process corresponding to one of the error detection code and the error correction code

of the detected additional information; and

controlling an output operation for the content data [of the content] corresponding to the management information when no error [takes place] occurs in the error detecting process.

--32. (Amended) The data output controlling method as set forth in claim 31,

wherein the controlling step is performed by rewriting the management information and adding one of the error detection code and the error correction code to the rewritten management information [as it is] without modification when the content data [of the content] is output.

--33. (Amended) The data output controlling method as set forth in claim 31, further comprising the step of:

stopping the operation when it is detected that [an] the error [takes place] occurs corresponding to one of the error detection code and the error correction code[, stopping the operation].

--34. (Amended) The data output controlling method as set forth in claim 31, further comprising the step of:

calculating a syndrome corresponding to one of the error detection code and the error correction code and determining whether [or not an] the error [takes place] occurs depending

on whether [or not] the calculated syndrome is a predetermined value.

--35. (Amended) The data output controlling method as set forth in claim 31, further comprising the step of:

calculating a syndrome corresponding to one of the error detection code and the error correction code and determining whether [or not an] the error [takes place] occurs depending on whether [or not] the calculated syndrome is a predetermined value and [corresponding] corresponds to the management information.

--36. (Amended) The data output controlling method as set forth in claim 35,

wherein when the calculated syndrome is zero and [when] the management information permits the content data [of the content] to be copied[, the] a result of the determining step represents that no error [takes place] occurs.

--37. (Amended) The data output controlling method as set forth in claim 35,

wherein when the calculated syndrome is a predetermined value and [when] the management information prohibits the content data [of the content] from being copied[, the] a result of the determining step represents that no error [takes



place] occurs.

--38. (Amended) The data output controlling method as set forth in claim 35,

wherein when the calculated syndrome is a predetermined value and [when] the management information permits the content data [of the content] to be copied[, the] a result of the determining step represents that [an] the error [takes place] occurs.

--39. (Amended) The data output controlling method as set forth in claim 35,

wherein when the calculated syndrome is zero and [when] the management information represents an original record medium[, the] a result of the determining step represents that no error [takes place] occurs.

--40. (Amended) The data output controlling method as set forth in claim 35,

wherein when the calculated syndrome is a predetermined value and [when] the management information represents a non-original record medium[, the] a result of the determining step represents that no error [takes place] occurs.

--41. (Amended) The data output controlling method as set

forth in claim 35,

wherein when the calculated syndrome is a predetermined value and [when] the management information represents an original record medium[, the] a result of the determining step represents that [an] the error [takes place] occurs.

--42. (Amended) A data outputting method, comprising the steps of:

rewriting management information when [at least] the management information and additional information are embedded [to] in content data [of a content] and [then] output, wherein the management information [being with respect] corresponds to [a] copy management[,]; the additional information [containing at least] contains one of error detection code and error correction code added to the management information[, rewriting the management information,]; adding one of the error detection code and the error correction code [as it is] without modification to the rewritten management information[,]; and outputting [the] resultant data.

--43. (Amended) An error detecting method, comprising the steps of:

pre-obtaining a syndrome [in the case that at least] when a part of data to which [at least] one of error detection code and error correction code has been added has been rewritten

corresponding to [at least] one of the error detection code and the error correction code;

obtaining a syndrome corresponding to one of the error detection code and the error correction code when the data is reproduced; and

detecting whether [or not] an error [takes place] occurs corresponding to the obtained syndrome and the pre-obtained syndrome.

--44. (Amended) The error detecting method as set forth in claim 43,

wherein the detecting step is performed depending on one of whether [or not] the obtained syndrome is zero [or] and whether [or not] the obtained syndrome matches the pre-obtained syndrome.

--45. (Amended) The error detecting method as set forth in claim 44,

wherein when one of the obtained syndrome is zero [or] and the obtained syndrome matches the pre-obtained syndrome[, the] a result of the detecting step represents that no error [takes place] occurs.

--46. (Amended) The error detecting method as set forth in claim 44,

wherein when one of the obtained syndrome is zero [or when] and the obtained syndrome does not match the pre-obtained syndrome[, the] a result of the detecting step represents that [an] the error [takes place] occurs.

--48. (Amended) The error detecting method as set forth in claim 43,

wherein when a part of the data is rewritten[, the detecting step is performed corresponding to the rewritten [portion] part of the data, the pre-obtained syndrome, and the obtained syndrome.

--49. (Amended) A data outputting and reproducing method, comprising the steps of:

adding one of error detection code and error correction code to data and outputting resultant data when [at least] a part of the data to which one of the error detection code and the error correction code has been added is rewritten[, adding at least one of the error detection code and the error correction code to the data and outputs the resultant data];

pre-obtaining a syndrome [in the case that at least a] when the part of the data is rewritten;

[when the data is reproduced,] obtaining a syndrome corresponding to one of the error detection code and the error correction code when the data is reproduced; and

detecting whether [or not] an error [takes place] occurs corresponding to the obtained syndrome and the pre-obtained syndrome.

--50. (Amended) The data outputting and reproducing method as set forth in claim 49,

wherein the detecting step is performed depending on one of whether [or not] the obtained syndrome is zero [or] and whether [or not] the obtained syndrome matches the pre-obtained syndrome.

--51. (Amended) The data outputting and reproducing method as set forth in claim 50,

wherein when one of the obtained syndrome is zero [or] and the obtained syndrome matches the pre-obtained syndrome[,], the result of the detecting step represents that no error [takes place] occurs.

52. (Amended) The data outputting and reproducing method as set forth in claim 50,

wherein when one of the obtained syndrome is zero [or when] and the obtained syndrome does not match the pre-obtained syndrome[,], the result of the detecting step represents that [an] the error [takes place] occurs.

--54. (Amended) The data outputting and reproducing method as set forth in claim 49,

wherein when [a] the part of the data is rewritten[,], the detecting step is performed corresponding to the rewritten portion of the data, the pre-obtained syndrome, and the obtained syndrome.

--55. (Amended) The data outputting and reproducing method as set forth in claim 49,

wherein when the result of the detecting step represents that [an] the error [takes place, at least] occurs the data [is] are prohibited from being re-output.

--56. (Amended) The data outputting and reproducing method as set forth in claim 49,

wherein when the result of the detecting step represents that no error [takes place, at least] occurs the data [is] are permitted to be re-output.--